

1 **WHAT IS CLAIMED IS:**

- 2 1. A do-it-yourself assembly construction piece comprising:
 - 3 a body with multiple ends and a thickness; and
 - 4 at least one connecting portion extending respectively from ends of
 - 5 the body, wherein, each one of the at least one connecting portion has a
 - 6 through hole, a convex distal edge and a thickness half the thickness of the
 - 7 body; and
- 8 the body has a concave face formed concentric with the through hole
- 9 in each one of the at least one connecting portion to mate with a
- 10 corresponding convex distal edge on an adjacent assembly construction piece.
- 11 2. The do-it-yourself assembly construction piece as claimed in
- 12 claim 1, wherein the body is a straight body (10a-10f) with two ends and two
- 13 connecting portions (12) are formed respectively on the two ends of the
- 14 straight body (10a-10f).
- 15 3. The do-it-yourself assembly construction piece as claimed in
- 16 claim 1, wherein the body is a bent longitudinal body (20a-20c) with two
- 17 ends, an inner side and an outer side; and
- 18 two connecting portions (22) are respectively formed at the two ends
- 19 on the outer side.
- 20 4. The do-it-yourself assembly construction piece as claimed in
- 21 claim 1, wherein the body is a bent longitudinal body (30a, 30b) with two
- 22 ends, an inner side, and an outer side; and
- 23 two connecting portions (32) are respectively formed at the two ends
- 24 on the inner side.

1 5. The do-it-yourself assembly construction piece as claimed in
2 claim 1, wherein the body is a straight body (40) with two ends and two sides;
3 two connecting portions (42) formed respectively on opposite sides
4 of the straight body (40).

5 6. The do-it-yourself assembly construction piece as claimed in
6 claim 1, wherein the body (50a, 50b) has two ends;
7 one connecting portion (52) is formed at one end;
8 a hexahedron sleeve (56) is formed at the other end of the body (50),
9 wherein each hexahedron sleeve (56) has a top, a bottom, a front, a rear, two
10 sides and a rod hole (562) defined through the hexahedron sleeve (56) from
11 the front to the rear.

12 7. The do-it-yourself assembly construction piece as claimed in
13 claim 6, wherein a bolt hole (564) is defined through the hexahedron sleeve
14 (56) from the top to the bottom to communicate with the rod hole (562).

15 8. The do-it-yourself assembly construction piece as claimed in
16 claim 1, wherein the body is a twisted body (60) with two ends; and
17 two connecting portions (62) formed respectively on the two ends;
18 wherein, the twisted body (60) has a middle portion twisted to 90°.

19 9. The do-it-yourself assembly construction piece as claimed in
20 claim 1, wherein the body is a rectangular body (70a, 70b) with four ends;
21 and
22 at least three connecting portions (72) formed on the rectangular
23 body (70a, 70b).

24 10. The do-it-yourself assembly construction piece as claimed in

1 claim 1, wherein the body is a straight body (80) with two ends;
2 one connecting portion (82) is formed at one end of the straight body
3 (80); and
4 an elongated hole (88) is defined on the straight body (80) near the
5 other end of the straight body (80), is countersunk and has a bore diameter
6 the same as the through hole of the connecting portion (82).

7 11. The do-it-yourself assembly construction piece as claimed in
8 claim 1, wherein the assembly construction piece has
9 an L-shaped body (100a, 100b) with multiple ends; and
10 at least three connecting portions (102) formed respectively on the
11 ends of the L-shaped body (100a, 100b).

12 12. The do-it-yourself assembly construction piece as claimed in
13 claim 11, wherein the L-shaped body further has a flat abutting face (114)
14 formed at an included angle on the L-shaped body.

15 13. The do-it-yourself assembly construction piece as claimed in
16 claim 1, wherein the assembly construction piece has a long body (120) with
17 two ends that are bent in different directions and are parallel to each other.

18 14. The do-it-yourself assembly construction piece as claimed in
19 claim 1, wherein the assembly construction piece has a curved body that is
20 curved transversely and subtends an arc of any number of degrees evenly
21 divisible into 360°.

22 15. The do-it-yourself assembly construction piece as claimed in
23 claim 1, wherein the through hole on each one of the connecting portion has
24 an inner toothed surface.

1 16. A do-it-yourself assembly construction piece comprising:
2 two bodies (90), wherein each body (90) has a thickness and two
3 ends, and one end of one body is pivotally connected to an end of the other
4 body; and
5 one connecting portion (92) is formed on the other end of each body
6 and has a through hole and a convex distal edge, wherein each connecting
7 portion (92) has a thickness half the thickness of the body (90);
8 wherein, each body (90) has a concave face formed concentric with
9 the through hole in the connecting portion to mate with the concave distal
10 edge on an adjacent assembly construction piece.